

OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/021,323

DATE: 01/14/2002

TIME: 19:06:43

Input Set : D:\Pa\_00393.rpt

Output Set: N:\CRF3\01142002\J021323.raw

1 <110> APPLICANT: Deikman, Jill  
 2 Feng, Paul C.C.  
 3 Fincher, Karen L.  
 4 Ziegler, Todd E.  
 6 <120> TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
 7 Plants  
 9 <130> FILE REFERENCE: 38-21(52274)B  
 11 <140> CURRENT APPLICATION NUMBER: US/10/021,323  
 11 <141> CURRENT FILING DATE: 2001-12-12  
 11 <150> PRIOR APPLICATION NUMBER: US 60/255, 619  
 13 <151> PRIOR FILING DATE: 2000-12-14  
 15 <160> NUMBER OF SEQ ID NOS: 17880  
 17 <210> SEQ ID NO: 1  
 18 <211> LENGTH: 574  
 19 <212> TYPE: DNA  
 20 <213> ORGANISM: Gossypium hirsutum  
 22 <220> FEATURE:  
 24 <223> OTHER INFORMATION: Clone ID: LIB3825-002-Q1-N6-A11  
 26 <400> SEQUENCE: 1  
 28 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60  
 30 tttttttttt ttttaatttt tatatttttt tatatttttt aataaaaaaa aaaaaaa 120  
 32 gaaaaaa aaaaaaa aaaaaaa aaaaaaa attccgtcgt 180  
 34 taaaaaa aaaaaaa aaaaaaa aaaaaaac cccccaaa aaaaaagaa 240  
 36 aaaaaaa aaaaaaa aacacaaaa aaaaaaa aaccgtaaaa gcgcctcaca 300  
 38 aaaccaaagg aataaaaaaa agaccagaac ttaaaaaaa gacatggaca agaaaaacag 360  
 40 gaacacctaa aaaaaaa gccccaaaa gacgaaaaaa atggggaaag aaatggatta 420  
 42 caaacggggc ggaacacaaa attgtccgga cgcttggaag gacccgagaa tcgcgccgg 480  
 44 aaccgggaag cgtaaccagct tgccaagaag ggagtccaaa aagaaattgg ccctaggcgt 540  
 46 ggcaaaagg gggaaaagg gaaaaacgtt gtcc 574  
 49 <210> SEQ ID NO: 2  
 50 <211> LENGTH: 357  
 51 <212> TYPE: DNA  
 52 <213> ORGANISM: Gossypium hirsutum  
 54 <220> FEATURE:  
 56 <223> OTHER INFORMATION: Clone ID: LIB3825-002-Q1-N6-A3  
 58 <400> SEQUENCE: 2  
 60 cctacaagag ataaattttt taagttcaag tttttgggag ggttttaggtt acaaccccaa 60  
 62 tttgtttcca tgggtcattt ttaaagggtt acaacgggaa tttttactca tttcacaaca 120  
 64 ccacaattaa ttttttccct ttttttccg gccccctgga actcaataag taatcaaaaa 180  
 66 actccatggg ggtttttaac actaaatttg tcacatgagc ttcaacctca aatagctttt 240  
 68 tttttttggc cctttttttt ttacttttaa tcagcttcac ttttttttag gcagccccc 300  
 70 ttttgatgt tacagagttg acaattgtag caaattccg ccccttcaag gaagccc 357  
 73 <210> SEQ ID NO: 3  
 74 <211> LENGTH: 524  
 75 <212> TYPE: DNA  
 76 <213> ORGANISM: Gossypium hirsutum  
 78 <220> FEATURE:

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80 &lt;223&gt; OTHER INFORMATION: Clone ID: LIB3825-002-Q1-N6-A4

82 &lt;400&gt; SEQUENCE: 3

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84 aatgattatt gatataattta tagtagaaga tgaagagcta tagattcgaa atggaactgc 60
86 taggctgttt tgagctggct tcgacaccgt cagtcggtac accttgatta gcccaagtag 120
88 agatgttggt agtggcaatc gcgaatggac cggggaaaaa catgggagt agccccccac 180
90 ttctgacgtt aaaatctgcc gacaaaaaaa atcccttttc gactcctttg cacatttgat 240
92 ctactttggc tgcggctcgtt ttttgcgcct tcttgatttc tgcaaccgcc aatgctttcc 300
94 tcacgacttc tttactgtgc cactgggcgt cttctagttc ttccttatcc acgtttattt 360
96 caagagattt agcgtatgca aagaaccgga ccatcaactg gcatggtatg ctactcggac 420
98 caaccggcca tggctgagaa ctatgataaa caacttctcc gacttcaata ccggcctctt 480
100 catatgtttc tctcctcact gcttcttcta agctttcccc tgge 524

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103 &lt;210&gt; SEQ ID NO: 4

104 &lt;211&gt; LENGTH: 588

105 &lt;212&gt; TYPE: DNA

106 &lt;213&gt; ORGANISM: Gossypium hirsutum

108 &lt;220&gt; FEATURE:

110 &lt;223&gt; OTHER INFORMATION: Clone ID: LIB3825-002-Q1-N6-A5

112 &lt;400&gt; SEQUENCE: 4

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114 atgcttaaac tcagcgggta atccgcctg acctgggggc gcgatgcgag caccgtcctt 60
116 gcgatgccga aagggttcaa ggggtctgat cgacggacgc gcacgactcc gaacgaggtt 120
118 gcttgacgca ttaccaccga tcgtcgcgac gatgatgtcg cctaggactc gaatttaggc 180
120 caaccgctgg ctgtgagcgc accccacccc aatttccgcc cgcggtccaa ccgaggctaa 240
122 aaaactcatg gttggatggg ggcgacgatg cgtgacaccc aggcagacgt gccctcggcc 300
124 taatggcttg gggcgcaact tgcgttcaaa gactcgatgg ttacgggat tctgcaattc 360
126 acaccaagta tcgatttcg ctacgttctt catcgatgcg agagccgaga tatccgttgc 420
128 cgagagtcgt tctgtatatt ttgcgacaag agaacaacat cactgaagca tcgacaccgc 480
130 gaacggtgcg gcgacagaag acgtgccccct tctttcggtt cgattccttg gcgcgattcg 540
132 cgccgggggt ttgttcgctt tgcctcgaag agttgatccc ggcattcta 588

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135 &lt;210&gt; SEQ ID NO: 5

136 &lt;211&gt; LENGTH: 531

137 &lt;212&gt; TYPE: DNA

138 &lt;213&gt; ORGANISM: Gossypium hirsutum

140 &lt;220&gt; FEATURE:

141 &lt;221&gt; NAME/KEY: unsure

142 &lt;222&gt; LOCATION: (1)..(531)

143 &lt;223&gt; OTHER INFORMATION: unsure at all n locations

144 &lt;223&gt; OTHER INFORMATION: Clone ID: LIB3825-002-Q1-N6-A6

146 &lt;400&gt; SEQUENCE: 5

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148 ggaataattg aagcagggtg tcattattgc actcaaactc acatacctgt gtcttaaaca 60
150 actagtgttt catttactat atgtttacat tgaagcaaaa ttgaaaaggc cgtgaccatt 120
W--> 152 ctttcaagtt tcatccatcc catcacttac ctantagcat ctgcttcgaa ttaatttgat 180
154 gtatttcaag gatccacga aggtcctcca tcgaacatct tcagcaaaaa aacagtctcc 240
156 ttctctgtcc agataagtga gtttaaagct cttttgccca ttctcatcag atatatcaaa 300
158 cattctcatc aggggtggtt tgagcgattc aaaggagtgg tgaagactaa tgtcaatttt 360
160 cctggcaatt gcatttcctt ccatctttac cttcacgtac gttgaacttg aagccctacc 420
W--> 162 accacagcta ttctccaccg ccgcccttac attggctacg cggngccgca ctttttccct 480
164 ccatgctttc actggtggcc accccactaa accctctcca tcattcttga a 531

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167 &lt;210&gt; SEQ ID NO: 6

168 &lt;211&gt; LENGTH: 582

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169 <212> TYPE: DNA
170 <213> ORGANISM: Gossypium hirsutum
172 <220> FEATURE:
174 <223> OTHER INFORMATION: Clone ID: LIB3825-002-Q1-N6-A7
176 <400> SEQUENCE: 6
178 attaattagg accataagcg taaaacttat agtatatgag actttatttc agttatggca 60
180 cacagatcaa aaggatcaac aataagttaa tgcttccgaa acaactagat gatggccttt 120
182 ctacatttca gtcctttact catcctccgc aactccatgt ctaatttttt tgtctcacat 180
184 tgaggcgaga tgctaacttc tgacccactg cctatcagcc tgagaccagt atgagatcca 240
186 tatgctagcg aatttcatga gtcacacgtg gatcagacaa ggcatcaacc cagcggcaga 300
188 tgaatcgttc ttgcctgtct gctgccagg accggtatct ctctccgggc tgtttgaagt 360
190 tgttctcctt ctcaatgatg cacttctctc gccttccagt gcaaacagca ggtgggtag 420
192 ggaacatctc tgcattgacga acaggatcgt acctgaagg gaagtaattt atctcctcat 480
194 ccctgtgcat gaaattcata aaaccttcgt ggtgattgtt gtgatgagca cacttgggag 540
196 cattggtcgg gagttgcaga tagtttggcc caagtctgtg cc 582
199 <210> SEQ ID NO: 7
200 <211> LENGTH: 528
201 <212> TYPE: DNA
202 <213> ORGANISM: Gossypium hirsutum
204 <220> FEATURE:
206 <223> OTHER INFORMATION: Clone ID: LIB3825-002-Q1-N6-A9
208 <400> SEQUENCE: 7
210 aactgatgat cacatttctt tatttttctc taattattcc caacttttat tgatttatag 60
212 aactgccctg gctaacccta taacattaca acaggaccaa acttcttttt atatggtaca 120
214 acagtagcat cttgaaaaag aaaaaagtag aagcaacaa acaactaaca cagactcaag 180
216 gcagtagcag agcacaaaaa ctgcctcctt tcatttaata ggatcgataa taaggatcat 240
218 cctgggtacc tccgcgggtg ttccttctag tcccagcatt gttagacgcc gcatttggga 300
220 agtcttggtt ccccgttgta ccgtaagcac cctctgtatc tccgccaaac ccatactgc 360
222 tgaggtcate ttgcctgcct gtatcatacc cactacctgc ggtgggttac ccacggttgt 420
224 catgtocacc ggtaccgcca tagccaccag tgtcgcctat gttgtaccca gctgtggtgt 480
226 agccagtgcc accaatacca ccaccaccag catggccagc tgtggcgt 528
229 <210> SEQ ID NO: 8
230 <211> LENGTH: 348
231 <212> TYPE: DNA
232 <213> ORGANISM: Gossypium hirsutum
234 <220> FEATURE:
236 <223> OTHER INFORMATION: Clone ID: LIB3825-002-Q1-N6-B1
238 <400> SEQUENCE: 8
240 accaaacaat ctagtgtttt tgattttgta ataaaattta aaaaatttta aaaaagggg 60
242 ctacaaaaaa aaaaaaaaaa tttttttttt aaccaacact aacaacccca aaaaaaagc 120
244 aacaaccccc cccccaaaa agaaacaacc aacaatctaa aaaaaaaagg ccgcccggg 180
246 gaaactaaag agacaatgga ggaaatcagt cgccataccc accaccccaa ccacactagg 240
248 ctggatttaa tgcataaaag ccgaaaaaaa atccccacta tcttcatitt cctcaagctt 300
250 cactgaaaat acaaaactta acccacgcct ccggggacgc acgggggaa 348
253 <210> SEQ ID NO: 9
254 <211> LENGTH: 585
255 <212> TYPE: DNA
256 <213> ORGANISM: Gossypium hirsutum
258 <220> FEATURE:

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260 &lt;223&gt; OTHER INFORMATION: Clone ID: LIB3825-002-Q1-N6-B10

262 &lt;400&gt; SEQUENCE: 9

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264 ggcactaaaa tcatttcagg tataacagtg aaattggtaa aaaacgaaag agagagagag 60
266 agagacacag gtaaataaaa aaagcgtgaa ggcaatggaa ttctgttctt taaacgcagt 120
268 agacattttc ataattcttc cggattaact ttccattttt ttaggggatt cacctcattg 180
270 acataactaa tatagggtta atgccacaa aattagcaac aaggagtgga ggccgaacca 240
272 atgattaaaa agacggatag aataaagtct aggatctcac atttcccgtt tattacaatg 300
274 tagtccggcg taactgacag gtgaatgctg aaacttatgt cctccagaaa gcctttttga 360
276 tcattcgtga accaaactaa cccagcatta ctgcaccctt gaacttcccc cctgcatatc 420
278 aggaatggcc aatacggaca tgcaaggctt ccccccattg cgataaaaca attagctttt 480
280 caattaaatt tattccatgt gcttgtgcag ggcatacaca agaaacaaat gagcttttagc 540
282 atatgttacc gtacaacaat ttgacatttc catttctatt gcata 585

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285 &lt;210&gt; SEQ ID NO: 10

286 &lt;211&gt; LENGTH: 356

287 &lt;212&gt; TYPE: DNA

288 &lt;213&gt; ORGANISM: Gossypium hirsutum

290 &lt;220&gt; FEATURE:

291 &lt;221&gt; NAME/KEY: unsure

292 &lt;222&gt; LOCATION: (1)..(356)

293 &lt;223&gt; OTHER INFORMATION: unsure at all n locations

294 &lt;223&gt; OTHER INFORMATION: Clone ID: LIB3825-002-Q1-N6-B11

296 &lt;400&gt; SEQUENCE: 10

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298 caaggggttat caatggtgct ccttggctct ttaataatca tctcttgatt ttacatagga 60
300 atgggggaaaa tgaagataca atgtctgttc ctttgggtga ttctaactgg tggattcaga 120
302 ttcatgattt gccccagggt ctcttttagag attccatggc tgngetannt ggtaacttta 180
304 ttggaagatt tctggagtat gatacgaaac ccctggcaat tggaatatg aactatatgc 240
306 gtatacgtgt tcagcttgat gttcgaatgc cccttccttt nacctgcaga gtatttgggc 300
308 ggccaaggga ttacttctga aagggttggg ctgggggatt agtaatggca agcatg 356

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311 &lt;210&gt; SEQ ID NO: 11

312 &lt;211&gt; LENGTH: 580

313 &lt;212&gt; TYPE: DNA

314 &lt;213&gt; ORGANISM: Gossypium hirsutum

316 &lt;220&gt; FEATURE:

318 &lt;223&gt; OTHER INFORMATION: Clone ID: LIB3825-002-Q1-N6-B12

320 &lt;400&gt; SEQUENCE: 11

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322 aaattaaaaac tgggtggcca atctttttat tgtcacaact atttaccctt cattaataga 60
324 aacattaaaag tcttaagcat aatcatatca aacataacat taccctaatt taaacttttt 120
326 aattttctaataaaaagagctg aggctgttgt tgatgatgtg tcaactaggtg atcaagcatc 180
328 caaaggttca ctgactcagg ctgagcgccc ccaactcaact cagttgtcat ctcatcaggc 240
330 tccaaaacca ggaaggactc cagactcgag atttgtctct tcagctccat ctgcttttcc 300
332 attgcttcac tcggcctgta aactccattc tcgtaaccaa aaccataaaa aggttgtggg 360
334 gttgggtgggc tcttggtttc agaactcggg ggagtcaact caggagccat catacacctt 420
336 ttcttagcag gaggctgagt taggctggtg gtttgaggga agttgagctt ggctttgtcc 480
338 ccgcggatgc gcttggcggc ttcatcgtag gctcgagccg cttcttcagc cgtgttgtat 540
340 gtaccgagcc agattcggac acctttgtga ggatctctta 580

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343 &lt;210&gt; SEQ ID NO: 12

344 &lt;211&gt; LENGTH: 512

345 &lt;212&gt; TYPE: DNA

346 &lt;213&gt; ORGANISM: Gossypium hirsutum

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Input Set : D:\Pa\_00393.rpt

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348 &lt;220&gt; FEATURE:

350 &lt;223&gt; OTHER INFORMATION: Clone ID: LIB3825-002-Q1-N6-B2

352 &lt;400&gt; SEQUENCE: 12

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354 caccctaatt tttttttata atataattgt tagttacttt cttaataata tttcttctaa 60
356 caaggcaaaag aaataaagaa aaaagattga aatacaaaaga acttaaacc cttttcatta 120
358 tactactaaa atttggtccc tctacgtaat tggttggtga ttggattttt tttttcttag 180
360 gggtagcct ataagtctac gtcaaatacg gcccccttc gtacttttaa gaaaatactt 240
362 gggaagaaga cgccttatt ctcatagact aaaagctgtt tcccttcaat tcctctctac 300
364 gtatgtcagt caccgccgtt atcagggctt ggaaaccgag gctgcgccac cttcaaggcc 360
366 accgttacc atggtggctg actggactgt caacacggac atgctaggcg aggaaggctc 420
368 atgcgcccg cttgattgaa tcaaaagggtg gctgcggtt gccgggttt catggttgat 480
370 catgggttc cttgaacgag acgtggcgct tg 512

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373 &lt;210&gt; SEQ ID NO: 13

374 &lt;211&gt; LENGTH: 609

375 &lt;212&gt; TYPE: DNA

376 &lt;213&gt; ORGANISM: Gossypium hirsutum

378 &lt;220&gt; FEATURE:

379 &lt;221&gt; NAME/KEY: unsure

380 &lt;222&gt; LOCATION: (1)..(609)

381 &lt;223&gt; OTHER INFORMATION: unsure at all n locations

382 &lt;223&gt; OTHER INFORMATION: Clone ID: LIB3825-002-Q1-N6-B5

384 &lt;400&gt; SEQUENCE: 13

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386 ggtaatgaaa tcaaactttt ttattttattc agacatgggg atgtttgaga ataactcaag 60
388 aacgggaatg taacatcatg tttttgaatt cttgaaaatc aaccatgccg tctgaattgg 120
390 tgtcgtaata ccaaatacatg ctctgcagt cttttccact attttcacct cacataccca 180
392 gtcttcccag cagctattca agctcctcac atccccccaa cccatcccca ttcaagtcaa 240
394 acactttaaa agccttcgca aggtcactgt cttcttcttc accgccgccg tgaatgacca 300
396 attcctcctc ctctctctcg tcaccaccat gtgccagtgg gttcgagatg gattcataaa 360
398 agaacaagaa ttcatccaag ttcaaacatg gttttccac taagggtcc aattcttcaa 420
400 ggctgaattg gacagaccg attctctgga gcaaccaatt cagctcctcc agactaacga 480
402 agccatctcc attcttctcg agcttctcga atacgcgtt caagtcggtc ttactaagg 540
404 gggacatttt accaccaaag aggatatgat caccattaac atcaaaccct gaagctntac 600
406 aaattaagg 609

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409 &lt;210&gt; SEQ ID NO: 14

410 &lt;211&gt; LENGTH: 349

411 &lt;212&gt; TYPE: DNA

412 &lt;213&gt; ORGANISM: Gossypium hirsutum

414 &lt;220&gt; FEATURE:

415 &lt;221&gt; NAME/KEY: unsure

416 &lt;222&gt; LOCATION: (1)..(349)

417 &lt;223&gt; OTHER INFORMATION: unsure at all n locations

418 &lt;223&gt; OTHER INFORMATION: Clone ID: LIB3825-002-Q1-N6-B6

420 &lt;400&gt; SEQUENCE: 14

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422 aaaagagaaa aaaagggggg gggggaaaaa acccctccaa taaattttgg ggggggttaa 60
424 aaaaagggga aaggggcggc caccctgggt ggttttttga aaatagaaaa gggagggaaa 120
426 ggggggttagt atgaaaaggg ggaaaantnn gagaaaaatt ttttaaaggg atttttgggg 180
428 aggggaaacg ggaaaggggg gggggggggg gggaattttt ttgaacaaaa aaaaaggaaa 240
430 aaatttttgg gggggggggg ggggtatttt tccccccaaa atatccgggg gggggaaaaa 300
432 aaaggagggg gccccggggg gggaaaacc gaaaaaagga aaattttt 349

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Use of n and/or Xaa has been detected in the Sequence Listing.  
 → Review the Sequence Listing to insure a corresponding  
 explanation is presented in the <220> to <223> fields of  
 each sequence using n or Xaa.

## VERIFICATION SUMMARY

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DATE: 01/14/2002

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Input Set : D:\Pa\_00393.rpt

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:574 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29  
L:876 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29  
L:1088 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36  
L:1122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37  
L:1248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41  
L:1314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43  
L:1346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44  
L:1348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44  
L:1350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44  
L:1628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54  
L:1634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54  
L:2078 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69  
L:2080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69  
L:2146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71  
L:2248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74  
L:2286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75  
L:2456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80  
L:2492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81  
L:2494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81  
L:2854 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93  
L:2856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93  
L:2858 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93  
L:2860 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93  
L:3168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103  
L:3200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:104  
L:3938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128  
L:3940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128  
L:3978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130  
L:3980 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130  
L:4148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:135  
L:4150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:135  
L:4214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:137  
L:4364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142  
L:4402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143  
L:4408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143  
L:4494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:146

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/021,323

DATE: 01/14/2002

TIME: 19:06:45

Input Set : D:\Pa\_00393.rpt

Output Set: N:\CRF3\01142002\J021323.raw

L:4690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:153  
L:4746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:155  
L:4778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:156  
L:4780 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:156